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Subject: Hurricane Harvey ESF-10 Texas Situation Report #12 for 9/10/17
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Hurricane Harvey-Texas
ESF-10
Situation Report #12

Subject: SITREP #12
To: Agency Leads
Thru: Matthew Loes0el. PSC
From: Unified Command
Date: 9/10/2017
Reporting Period: 9/10/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

2. Current Activities

2.1. Operations Section

On September 10, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring and continued to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP), Facility Response Plan (FRP), Drinking water and Waste water facilities in the affected areas.

Liaison Officers and Public Information Officers visited Salt Lake Baptist Church in Rockport, at the request of TCEQ, to provide them with environmental information for residents returning to their homes. The church, which was badly damaged, has allowed 2 families from Corpus Christi to use the facility as a recovery center. The center is providing residents with clothes, personal items, cleaning supplies, food and water. They are serving meals to approximately 300 people a day. TCEQ has provided non-potable water at the center.

PIO closed out a media inquiry from Reuters (Reporter: Emily Flitter) providing information requested about reported chemical and oil spills at facilities. *"As of Sept. 7, approximately 1,000 targets ranging from 5-gallon containers to facilities, vessels and platforms have been assessed and evaluated for response action, including removal and disposal. Currently, the Unified Command has responded to 12 physical facilities that have reported spills. The reported spills at the 12 facilities include CERCLA-regulated hazardous materials and oil, but are turning out to contain primarily oil. The estimated quantities are unknown, however, for a number reasons; the initial reports were based on observations, some spills were already being cleaned up by responsible parties by the time of assessments, and in some instances, spills had migrated off-site, therefore becoming unquantifiable."*

Table 1 represents the up to date assessments of drinking water and waste water systems evaluated by both phone and on-site.

<u>Assessment Types</u>	<u>Daily Assessments</u>	<u>Total Assessments</u>
On-Site DW Assessments	44	391
On-Site WW Assessment	24	265
Phone DW Assessments	33	5033
Phone WW Assessments	4	3027

Table 2: Field Teams on 9/10/2017 – per IAP #11				
Teams	Alpha	Bravo	Charlie	Total
Hazard Evaluation	1	3	3	7
Oil Discharge Assessment	2	5	1	8
ER/Orphan Container Recovery	1	9	1	11
Oil/Vessel Recovery	2	0	0	2
Staging Areas	1	1	0	2
Air Operations	0	1	0	1
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – DW	0	10	1	11
Water Infrastructure Assessment – WW	0	5	0	5
Totals	7	37	6	50

Table 3: Daily/Cumulative summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/10/2017	Number of Targets Remaining Open	9/10/2017	Cumulative
Alpha Branch	5	12	0	88
Bravo Branch	29	250	1	69
Charlie Branch	14	62	1	8
NRC Reports	0	2	0	1

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

Table 4: Waste Received at All Staging Pads to Date						
DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	21	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	10	76
9/4/2017	10		3	1	14	90
9/5/2017				4	4	94
9/6/2017	3		1		4	98
9/7/2017	1		1	3	5	103
9/8/2017	4		1	5	10	113
9/9/2017	17	5	0	1	23	136
9/10/2017	*	*	*	*	*	
Totals	74	36	8	18		

*As additional staging pads will open; information may be delayed one day.

Table 5: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	Opened		Closed	
	9/10/2017	Number of Facilities/Spills Remaining Open	9/10/2017	Cumulative
Alpha Branch	1	13	1	36
Bravo Branch	4	48	1	35
Charlie Branch	2	16	0	10
NRC Reports	2	146	5	51
Totals	9	223	7	132

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Table 6: Daily/Cumulative Summary of VESSELS				
Status	Opened		Closed	
	9/10/2017	Number of Vessels Remaining Open	9/10/2017	Cumulative
Alpha Branch	33	433	22	151
Bravo Branch	2	58	1	11
Charlie Branch	37	42	1	5
NRC Reports	0	9	1	6
Totals	72	542	25	173

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Other Notable Activities

ALPHA BRANCH

The Oil Discharge Assessment (ODA) team 1 continued to monitor salvage operations of Signet Enterprise at Aransas Pass. The team monitored the safe removal of ballast water from the Signet Enterprise. A platform salvage barge is on scene and vessel straps have been ordered and are due to arrive by Monday. With that, salvage operations will continue tomorrow as the Oil Discharge Assessment Team will be on scene to oversee the salvage process and to complete a final assessment of oil or hazardous substance products onboard the Signet Enterprise.

The Oil Discharge Recovery team conducted spill and discharge assessments throughout the Aransas Pass municipal marina. There were 21 targets identified. All targets are vessels and no actual discharges were observed.

On San Jose Island, the Oil Discharge Recovery team monitored salvage operations associated with the towing vessel Sandy Point. The towing vessel Sandy Point was successfully placed in salvage slings and is undergoing further materiel assessment.

The Oil Discharge Recovery Group also oversaw the towing vessel Belle Chase being raised above the water line with the assistance of salvage straps from a barge crane. The vessel is now safely afloat and moored at Gulf Copper. There was no observed pollution and target is closed.

The 16,000-gallon crude oil spill from Conoco Phillips was clarified as three separate NRC reports that were plotted with the wrong locations. This has been rectified in Response Manager.

BRAVO BRANCH

The Hazard Evaluation (HE) Teams conducted and completed assessments in Brazoria County and Matagorda County. They identified 9 targets with nothing significant to report. HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, Galveston, Bastrop, Lee, Fayette, Colorado, Wharton, Walker, Matagorda, Harris, and Brazoria Counties. There were a few inaccessible areas not covered in Matagorda County and Brazoria County by land but those areas were already covered by air. The HE team intends to maintain two stand-by Hazard Evaluation Team for future operations.

The Air Recon Team conducted an aerial over flight of Sargent, Freeport, Chocolate Bayou, Galveston, and Houston to photograph 32 vessel targets and potential staging areas. They identified 4 new targets with nothing significant to report.

ASPECT continued to survey Risk Management Program (RMP), Facility Response Plan (FRP), Drinking water and Waste water facilities in the affected areas.

CHARLIE BRANCH

Teams conducted assessment in Cook Lake, Vidor, Beaumont, Beaumont Yacht Club, Angelet Marina, Orange and Neches City. The teams located total 12 targets (7 vessels targets).

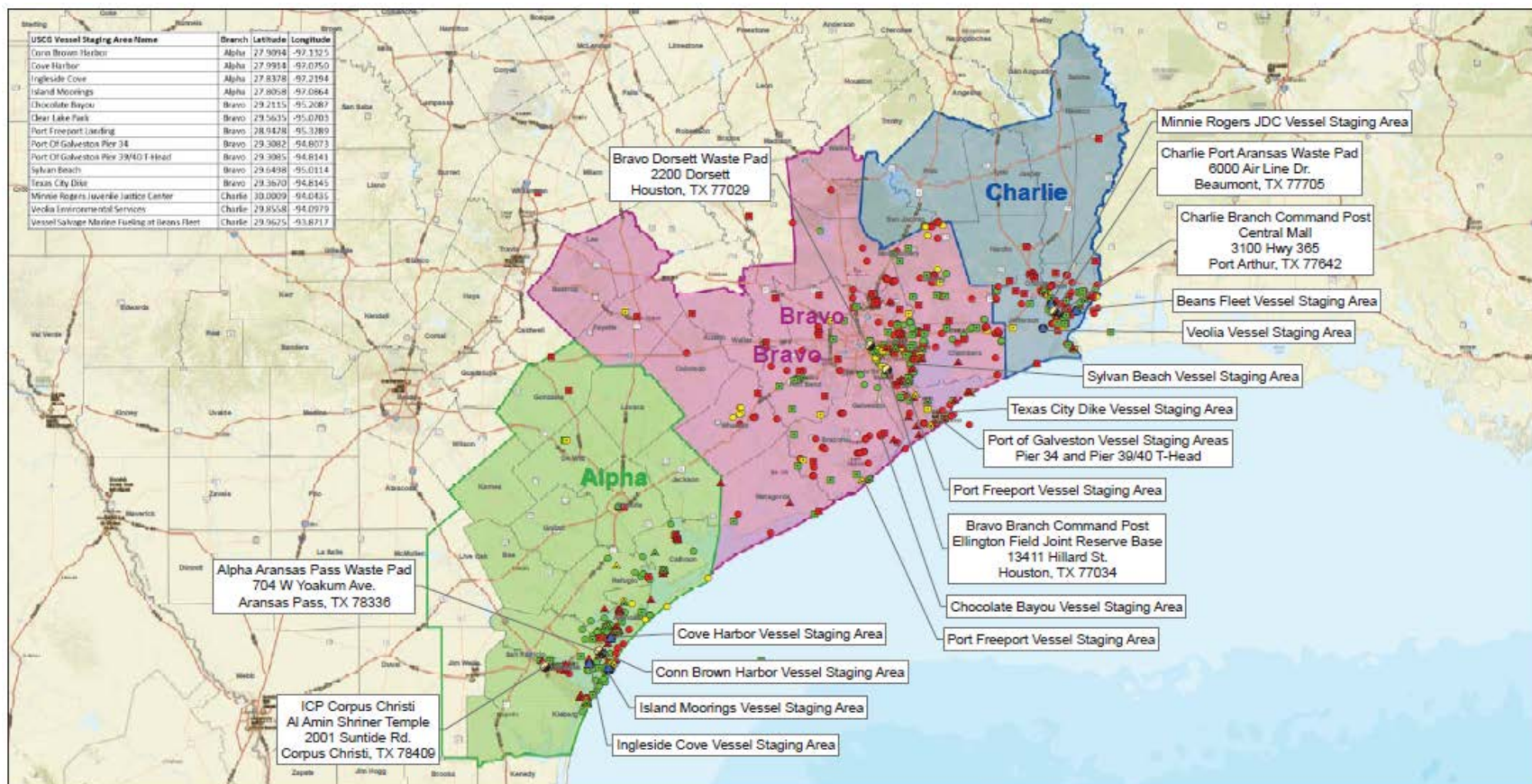
The Discharge Assessment (DA1) investigated a new possible oil spill across Cook Lake, but the team determined that the spill is the same as one previously investigated at the same location. At 1430, DA1 received a call to investigate a spill in Orange. The DA1 team arrived on scene and did not observe any oil discharges or hazardous material releases.

Participating Agencies

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- US Environmental Protection Agency
- US Coast Guard
- National Oceanic and Atmospheric Agency

3. Personnel on Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	10	2	55	4	71
USCG	19	6	44	18	87
TCEQ	1	0	21	7	29
TGLO	4	2	0	3	9
TXSG	0	0	8	0	8
CST	0	0	6	0	6
NOAA	1	0	0	0	1
Contractors	5	3	12	10	30
Totals	40	13	146	42	241



Legend

Federally Declared Counties: ■ in Alpha ■ in Bravo ■ in Charlie

● Incident Command Post (ICP) / Staging Area ● Vessel Staging Location

Facility/Spill Assessment	Haz/Eval Items	Vessels
■ Open	● Open	▲ Open
■ Open - Cleanup in Progress	● Open	▲ Open - Cleanup in Progress
■ Closed	● Closed	▲ Closed

Access Denied/Leave in Place/Refer to Other Agency

**USA EPA REGION 6
SITREP Map
Alpha, Bravo, Charlie**

Hurricane Harvey Response
September 10, 2017

0 25 50
Miles

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